

## REVISIONS IN THE FLORA OF ST. CROIX U.S. VIRGIN ISLANDS<sup>1</sup>

F. R. FOSBERG

Incidental field studies were carried out in St. Croix during a field course in tropical botany, taught at the West Indies Laboratory, Fairleigh Dickinson University. A number of plants that were not previously recorded from the island were seen, some of them collected. It seems useful to publish these records, along with corrections of the names of certain species already known from St. Croix.

There is no modern flora of St. Croix, or even an up-to-date published list. The two reasonably comprehensive source works for the St. Croix flora are Britton & Wilson, *Scientific Survey of Puerto Rico and the Virgin Islands*, volumes 5 and 6, and Little & Wadsworth, *Common Trees of Puerto Rico*. The names used by Little & Wadsworth are mostly acceptable, but only trees are included. Britton & Wilson worked under different rules of nomenclature and had much narrower generic concepts than many modern workers on tropical floras. Hence many of the names are not in accord with present usages. Dr. Alain Liogier has published a number of papers rectifying the Britton & Wilson nomenclature. His corrections are largely satisfactory, though in some cases there is room for difference of opinion.

A draft of a check-list of St. Croix plants has been prepared for use in connection with courses and research at the West Indies Laboratory (herbarium = FA). Records were extracted from the above listed works and certain others that include St. Croix plants, some of the existing herbarium material was examined, and substantial new collections were made. Included in the list also are some plants not yet represented by St. Croix specimens, but which could be reliably recorded as sight records. These

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are mainly garden plants. This check-list is not yet completed, and it may be some time before it is, as much more collecting should be done to get a documented record of what is growing on the island at present.

Pending the completion of the check-list it seemed worthwhile to extract from it all names differing from those accepted in the Britton & Wilson and Little & Wadsworth books. As the list stands it includes accepted changes and new records of St. Croix plants from Alain's work, as well as my own new records and taxonomic changes. This extracted list is here presented as an interim source of what seem to be the correct names of St. Croix plants. Species known from the island but not included here are mostly listed under acceptable names in one of the two books cited above. Taxa not native to the island are indicated by an asterisk.

Abbreviations of principal sources are as follows:

B. & W. = Britton, N. L. and Wilson, P. Scientific Survey of Porto Rico and the Virgin Islands, vols. 5 & 6, Botany.

L. & W. = Little, E. L. and Wadsworth, F. Common trees of Puerto Rico.

Herbarium symbols are those of Index Herbariorum, ed. 6, except that FA is used for the herbarium of the Fairleigh Dickinson University West Indies Laboratory and FO is for material not yet distributed by F. R. Fosberg.

### PTERIDOPHYTA

#### PALTONIUM Presl

*Paltonium lanceolatum* (L.) Presl — Bodkin Hill, *Hayes* 31 (FA).

#### POLYPODIUM L.

*Polypodium aureum* L. — Coble, 50 m, *Hayes* 47 (FA); Eliza's Retreat, in thick woods on precipitous east-facing slope, 500', *Fosberg & Hayes* 54158 (US).

*Polypodium phyllitidis* L. — Bodkin Hill, 150 m, *Hayes* 29 (FA).

*Polypodium polypodioides* (L.) — Watt. Bodkin, 200 m, *Hayes* 41 (FA).

**PTERIS L.**

\**Pteris longifolia* L. — Christiansted, in crevices in walls and rocky waste places. *Fosberg* 53935 (US, FA); *Hayes* 27 (FA).

**THELYPTERIS Schmid.** (*Dryopteris* sensu B. & W. as to St. Croix records, non Adans.)

*Thelypteris dentata* (Forsk.) E. St. J. (*Dryopteris dentata* (Forsk.) C. Chr., B. & W. 6: 471).

*Thelypteris patens* (Sw.) Small (*Dryopteris patens* (Sw.) O. Ktze., B. & W. 6: 471).

*Thelypteris poiteana* (Bory) Proctor (*Dryopteris poiteana* (Bory) Urb., B. & W. 6: 473). Spring Garden, 100 m., *Hayes* 26 (FA). Looks much like a *Tectaria* except for venation; bears plantlets on midrib of frond.

*Thelypteris tetragona* (Sw.) Small (*Dryopteris subtetragona* (Link) Maxon, B. & W. 6: 473).

**CYCADACEAE**

\***CYCAS L.**

\**Cycas circinalis* L. — Seen planted in Christiansted, 1972.

\**Cycas revoluta* Thunb. — Teague Bay, planted at West Indies Laboratory, *Hayes* 134 (FA).

**CUPRESSACEAE**

\***THUJA L.**

\**Thuja orientalis* L. — Seen planted, 1972.

**ARAUCARIACEAE**

\***ARAUCARIA Juss.**

\**Araucaria heterophylla* (Salisb.) Franco. — Seen planted, 1972.

**PODOCARPACEAE**

\***PODOCARPUS Pers.**

\**Podocarpus macrophyllus* var. *maki* Endl. — Teague Bay, West Indies Lab. *Hayes* 143 (FA).

### TYPHACEAE

#### TYPHA L.

*Typha domingensis* (Pers.) Kunth (*Typha angustifolia* sensu B. & W. non L., B. & W. 5: 9). Fide Alain, *Rhodora* 67: 317, 1965.

### POTAMOGETONACEAE

(Incl. Zannichelliaceae and Ruppiaceae)

#### HALODULE Endl.

*Halodule wrightii* Aschers. (B. & W. 5: 12; *Halodule beaudettei* (d. Hart.) d. Hart.). Reported by den Hartog, *Blumea* 12: 303, 1964, as *H. beaudettei*, which does not seem specifically distinct from the widespread *H. wrightii*.

#### SYRINGODIUM Kütz.

*Syringodium filiforme* Kütz. (*Cymodocea manatorum* Aschers., B. & W. 5: 12).

### ALISMATACEAE

#### ECHINODORUS Rich.

*Echinodorus berteroi* (Spreng.) Fassett (*Echinodorus cordifolius* Griseb., B. & W. 5: 14).

### GRAMINEAE

ANDROPOGON L. (sensu lato; *Amphilophis* Nash, *Schizachyrium* Nees.).

*Andropogon gracilis* Spreng. (*Schizachyrium gracile* (Spreng.) Nash, B. & W. 5: 24).

*Andropogon ischaemum* L. (*Amphilophis ischaemum* (L.) Nash, B. & W. 5: 27).

\**Andropogon pertusus* (L.) Hitchc. — Reported by Hitchcock, *Man. Grasses W.I.*, 402, 1936; now very abundant, locally called "hurricane grass."

*Andropogon semiberbis* Spreng. (*Schizachyrium semiberbe* (Spreng.) Nash, B. & W. 5: 25).

\*BAMBUSA Retz. (*Bambos* Retz.).

\**Bambusa vulgaris* Schrad. (*Bambos vulgaris* Schrad., B. & W. 5: 77).

## CHLORIS Sw.

\**Chloris gayana* Kunth — Seen persisting in old Experiment Station grounds, near Upper Bethlehem, 1972.

*Chloris inflata* Link (*Chloris paraguayensis* Steud., B. & W. 5: 67; 6: 232; *Chloris barbata* sensu American authors, non (L.) Sw.) Teague Bay, *D. Smith* 11 (FA).

*Chloris sagraeana* A. Rich. — Said by Alain, *Rhod.* 67: 319, 1965, not to be in St. Croix.

CYNODON L. C. Rich. (*Capriola* Adans.).

*Cynodon dactylon* (L.) Pers. (*Capriola dactylon* (L.) O. Ktze., B. & W. 5: 66). Teague Bay, *Kaufman* 64 (FA).

DIGITARIA Heist. (*Syntherisma* Walt., *Valota* Adans.).

*Digitaria ciliaris* (Retz.) Koel. (*Syntherisma sanguinalis* sensu B. & W., non (L.) Dulac, B. & W. 5: 33).

*Digitaria horizontalis* Willd. (*Syntherisma digitata* (Sw.) Hitchc., B. & W. 5: 34).

*Digitaria insularis* (L.) Mez (*Valota insularis* (L.) Chase, B. & W. 5: 32).

*Digitaria ischaemum* (Schreb.) Schreb. (*Syntherisma ischaemum* (Schreb.) Nash, B. & W. 5: 33).

## ERAGROSTIS Host.

\**Eragrostis tenella* (L.) Beauv. (*Eragrostis amabilis* (L.) W. & A., B. & W. 5: 75; 6: 332).

LASIACIS (Griseb.) Hitchc.

*Lasiacis patentiflora* Hitchc. & Chase. — Reported by Alain, *Rhodora* 67: 318, 1965.

LEPTOCHLOA Beauv. (*Diplachne* Beauv.).

*Leptochloa fascicularis* (Lam.) Gray (*Diplachne fascicularis* (Lam.) Beauv., B. & W. 5: 72; 6: 332).

*Leptochloa panicea* (Retz.) Ohwi (*Leptochloa filiformis* (Lam.) Beauv., B. & W. 5: 71). Fide Alain, *Rhodora*, 67: 319, 1965.

OPLISMENUS Beauv.

*Oplismenus setarius* (Lam.) R. & S. Reported by Hitchcock, *Man. Grasses* W.I. 324, 1936.

## PANICUM L.

*Panicum capillare* L. — Reported by Hitchcock, Man. Grasses W.I. 255, 1936.

\**Panicum muticum* Forsk. (*Panicum purpurascens* Raddi; *Panicum barbinode* Trin.; *Brachiaria mutica* (Forsk.) Stapf).

## PASPALUM L.

*Paspalum distichum* L. (*Paspalum vaginatum* Sw., B. & W. 5: 40). The Linnean specimen of *P. distichum* is clearly the plant commonly called *P. vaginatum* Sw.

*Paspalum laxum* Lam. (*Paspalum glabrum* Poir., B. & W. 5: 39). St. Croix is probably type locality of *P. laxum*, fide Hitchcock, Man. Grasses W.I. 215, 1936.

*Paspalum paspalodes* (Michx.) Scribn. (*Paspalum distichum* sensu auct. plur., non L., B. & W. 5: 41).

## PENNISETUM Pers.

*Pennisetum ciliare* (L.) Link. — Teague Bay, *Frederiksen* 18-24 (FA).

SETARIA Beauv. (*Chaetochloa* Scribn.).

*Setaria geniculata* (Lam.) Beauv. (*Chaetochloa geniculata* (Lam.) Millsp. & Chase, B. & W. 5: 55).

\**Setaria italica* (L.) Beauv. (*Chaetochloa italica* (L.) Scribn., B. & W. 6: 332).

*Setaria rariflora* Milsan (*Chaetochloa rariflora* (Milsan) Hitchc. & Chase, B. & W. 5: 56).

*Setaria setosa* (Sw.) Beauv. (*Chaetochloa setosa* (Sw.) Scribn., B. & W. 5: 56).

\*SORGHUM Moench (*Holcus* sensu B. & W. 5: 29, non L. sensu stricto).

\**Sorghum bicolor* Roxb. (*Holcus sorghum* L., B. & W. 5: 29).

## SPARTINA Schreb.

*Spartina patens* (Ait.) Muhl. — Buck I. Børgesen in 1906 (US).

## SPOROBOLUS R. Br.

\**Sporobolus africanus* (Poir.) Robyns & Tourn. (*Sporobolus berterioanus* (Trin.) Hitchc. & Chase, B. & W. 5: 64).

*Sporobolus argutus* (Nees) Kunth. — East End Point, *D. Smith* 18 (FA); *Fosberg* 54019 (US, FA). Hitchcock, Man. Grasses W.I., 84, regards this as a synonym of *S. pyramidatus* (Lam.) Hitchc.

*Sporobolus tenuissimus* (Schranck) O. Ktze. (*Sporobolus muralis* (Raddi) Hitchc. & Chase, B. & W. 5: 64). Fide Hitchcock, Man. Grasses W.I., 81.

TRAGUS Hall. (*Nazia* Adans.).

*Tragus berteronianus* Schult. (*Nazia aliena* sensu B. & W., non (Spreng.) Scribn., B. & W. 5: 31).

## \*TRICHOLAENA Schrad.

\**Tricholaena rosea* Nees. — Seen, well established, in 1972.

## CYPERACEAE

CYPERUS L. (*Kyllinga* Rottb.).

\**Cyperus alternifolius* L. — Seen in 1969, planted.

*Cyperus brevifolius* (Rottb.) Hassk. (*Kyllinga brevifolia* Rottb., B. & W. 5: 79).

*Cyperus flavus* (Vahl) Nees (*Cyperus cayennensis* (Lam.) Britt., B. & W. 5: 86). Fide Alain, *Rhodora* 67: 320, 1965.

*Cyperus nanus* Willd. (*Cyperus granularis* (Desf.) Britt.). Fide Alain, *Rhodora* 67: 320, 1965 (B. & W. 5: 86).

*Cyperus nanus* var. *subtenuis* Kük. (*Cyperus tenuis* Sw.). Fide Alain, *Rhodora* 67: 320, 1965 (B. & W. 5: 87).

*Cyperus obtusatus* (Presl) Mattf. & Kük. (*Kyllinga pungens* Link). Fide Alain, *Rhodora* 67: 320, 1965 (B. & W. 5: 79).

*Cyperus odoratus* L., non sensu B. & W. (*Cyperus ferax* L. C. Rich. B. & W. 5: 89).

*Cyperus planifolius* L. C. Rich. (*Cyperus brunneus* Sw.). Fide Alain, *Rhodora* 67: 320, 1965 (B. & W. 5: 88).

*Cyperus unifolius* Boeckl. (*Cyperus filiformis* sensu B. & W. non Sw., B. & W. 5: 89).

ELEOCHARIS R. Br.

*Eleocharis geniculata* (L.) R. & S., non sensu B. & W. (*Eleocharis caribaea* (Rottb.) Blake, B. & W. 5: 91).

*Eleocharis montana* (HBK.) R. & S. (*Eleocharis nodulosa* (Roth) Schultes). Fide Alain, *Rhodora* 67: 320, 1965 (B. & W. 5: 92).

FIMBRISTYLIS Vahl.

*Fimbristylis dichotoma* L. (*Fimbristylis diphylla* (Retz.) Vahl, B. & W. 5: 95).

PALMAE (Arecaceae)

COCCOTHRINAX Sarg.

*Coccothrinax barbadensis* (Lodd. ex R. & S.) Becc., *Webbia* 2: 328, 1907. (*Thrinax barbadensis* Lodd. ex R. & S.; *Thrinax argentea* Lodd. ex Desf.; *Coccothrinax argentea* (Lodd. ex Desf.) Sarg. ex K. Schum.; *Coccothrinax eggersiana* Becc.; *Coccothrinax eggersiana* var. *sanctae-crucis* Becc.).

\*PHOENIX L.

\**Phoenix dactylifera* L. — Seen planted in Christiansted, 1972.

\**Phoenix roebelinii* O'Brien. — Seen planted, in 1972.

\*PRITCHARDIA Seem. & Wendl.

\**Pritchardia pacifica* Seem. & Wendl. — Seen planted, Teague Bay, 1972.

\**Pritchardia thurstonii* F. Muell. & Drude. — Seen planted in Cruzan Garden, 1972.

ROYSTONEA Cook.

*Roystonea elata* (Bartram) Harper (*Roystonea regia* (H.B.K.) Cook, B. & W. 5: 112; *Roystonea borinquena* Cook).



\*VEITCHIA Wendl.

\**Veitchia merrillii* (Becc.) H. E. Moore (*Adonidia merrillii* Becc.).

\*WASHINGTONIA Wendl. (*Neowashingtonia* Sudw.).

\**Washingtonia filifera* (Lind.) Wendl. (*Neowashingtonia filifera* (Lind.) Sudw., B. & W. 5: 119).

### ARACEAE

ANTHURIUM Schott.

\**Anthurium andraeanum* Lindl. — Seen in gardens, 1972.

\*CALADIUM Vent. (*Cyrtospadix* C. Koch).

\**Caladium bicolor* (Ait.) Vent. (*Cyrtospadix bicolor* (Ait.) B. & W., B. & W. 5: 126).

\*DIEFFENBACHIA Schott.

\**Dieffenbachia maculata* (Lodd.) Bunt. — Teague Bay, W.I. Lab. *Hayes* 148 (FA).

\*MONSTERA Schott.

\**Monstera deliciosa* Liebm. — Seen by Fosberg, 1972, cult.

\*PHILODENDRON Schott.

\**Philodendron selloum* C. Koch. — Teague Bay, planted, *Hayes* 151 (FA).

\*RHAPHIDOPHORA Hassk.

\**Rhaphidophora aurea* (Lind. & André) Birdsey (*Scindapsus aureus* Lind. & André). Seen planted in Christiansted, 1972.

\**Rhaphidophora pinnata* (L.) Schott. Seen planted in Christiansted, 1972.

### BROMELIACEAE

TILLANDSIA L. (*Dendropogon* Raf.).

*Tillandsia usneoides* L. (*Dendropogon usneoides* (L.) Raf.). Eliza's Retreat, Jakobsberg, *Fosberg* 54153 (US, FA, FO). Seen also at Creque Dam.

### COMMELINACEAE

#### CALLISIA L.

- \**Callisia fragrans* (Lindl.) Woodson — Cotton Valley, Yellowcliff Bay, *Fosberg* 53937 (US, FA, FO).

#### COMMELINA L.

- \**Commelina diffusa* Burm. f. (*Commelina longicaulis* Jacq., B. & W. 5: 145). Fide Alain, *Rhodora* 67: 323, 1965.  
*Commelina virginica* L. (*Commelina elegans* H.B.K., B. & W. 5: 145). Fide Alain, *Rhodora* 67: 373, 1969.

#### \*RHOEO Hance.

- \**Rhoeo spathacea* (Sw.) Stearn (*Rhoeo discolor* (L'Hér.) Hance, B. & W. 5: 147).

#### \*SETCREASIA K. Schum. & Syd.

- \**Setcreasia purpurea* Boom — Teague Bay, planted, *Hayes* 136 (FA).

### PONTEDERIACEAE

#### \*EICHHORNIA Kunth (*Piaropus* Raf.).

- \**Eichhornia crassipes* (Mart.) Solms (*Piaropus crassipes* (Mart.) Britt., B. & W. 5: 149).

### LILIACEAE (sensu latissimo)

#### AGAVE L.

- \**Agave americana* L. — Seen in gardens, 1972.

#### \*ALOE L.

- \**Aloe barbadensis* Mill. (*Aloe vera* L.; *Aloe vulgaris* Lam., B. & W. 5: 151).

#### \*ASPARAGUS L.

- \**Asparagus plumosus* Baker. — Seen, cultivated, 1972.  
 \**Asparagus sprengeri* Regel — Teague Bay, cultivated, *Hayes* 137 (FA).

#### \*CHLOROPHYTUM Ker-Gawl.

- \**Chlorophytum comosum* (Thurb.) Baker ? Seen in gardens, 1972.

\*CORDYLINE R. Br., non sensu B. & W.

\**Cordyline fruticosa* (L.) Chev. Seen, planted, 1972.

\*DRACAENA Vand.

\**Dracaena fragrans* (L.) Ker. — Seen, planted in Christiansted, 1972.

PANCRATIUM L.

*Pancratium declinatum* Jacq. (*Hymenocallis declinata* (Jacq.) M. Roem., B. & W. 5: 162). Fide Alain, *Rhodora* 67: 324, 1965.

\*SANSEVIERIA Thunb. (*Cordyline* Adans., non R. Br.).

\**Sansevieria hahnii* Hort. — This diminutive bowstring hemp was seen cultivated, 1972.

\**Sansevieria metallica* Ger. & Labory (*Sansevieria guineensis* sensu B. & W. 5: 150, non (L.) Willd.). Differs most conspicuously from *S. trifasciata* in the lack of a conspicuous leaf appendage and slightly wider leaves with a narrow reddish stripe on margins. It is abundantly naturalized in a number of parts of the island. It is represented by good flowering material from Salt River, near Morningstar, Fosberg 54061 (US, FA).

\**Sansevieria trifasciata* Prain — This common cultivated species was seen around Christiansted as a pot plant. Its very erect leaves have terete appendages at their tips.

ZEPHYRANTHES Herb. (*Atamosco* Adans.).

*Zephyranthes grandiflora* Herb. (*Atamosco carinata* (Herb.) P. Wils., B. & W. 5: 159).

*Zephyranthes puertoricensis* Traub (*Atamosco tubispatha* sensu B. & W., non (L'Hér.) Maza, B. & W. 5: 158).

### IRIDACEAE

ELEUTHERINE Herb. (*Galatea* Salisb.).

*Eleutherine bulbosa* (Mill.) Urb. (*Galatea bulbosa* (Mill) Britt., B. & W. 5: 166). Fide Alain, *Rhodora* 67: 324, 1965.

**MUSACEAE**

\*MUSA L.

\**Musa sapientum* L. — Seen in gardens, 1972.

\*RAVENALA L.

\**Ravenala madagascariensis* Gmel. Seen in gardens, 1972.

**ZINGIBERACEAE**

\*ALPINIA L., non sensu B. & W.

\**Alpinia purpurata* (Viell.) K. Schum. — Seen, planted, Cruzan Garden and Christiansted, 1972.

RENEALMIA L. f. (*Alpinia* sensu B. & W., non L.).

*Renealmia aromatica* (Aubl.) Griseb. (*Alpinia aromatica* Aubl., B. & W. 5: 172).

\*ZINGIBER Adans.

\**Zingiber officinale* Rosc. (*Zingiber zingiber* (L.) Karst., B. & W. 5: 173).

**ORCHIDACEAE**

EPIDENDRUM L. (*Anacheilium* Hoffmg.; *Auliza* Salisb.; *Encyclia* Hook.).

*Epidendrum bifidum* Aubl. (*Encyclia bifida* (Aubl.) B. & W.). Ridge above Cottongarden Pt., D'Arcy 4703 (FA).

*Epidendrum brittonianum* Hawkes (*Encyclia papilionacea* sensu B. & W. 5: 198, non (Vahl) Schltr.). Fide Alain, *Rhodora* 67: 326, 1965.

*Epidendrum ciliare* L. (*Auliza ciliaris* (L.) Salisb., B. & W. 5: 199). Fide Alain, *Rhodora* 67: 326, 1965.

*Epidendrum cochleatum* L. (*Anacheilium cochleatum* (L.) Hoffmg., B. & W. 5: 198). Fide Alain, *Rhodora* 67: 326, 1965.

SPIRANTHES Rich. (*Beadlea* Small).

*Spiranthes elata* (Sw.) L. C. Rich. (*Beadlea elata* (Sw.) Small, B. & W. 5: 187). Fide Alain, *Rhodora* 67: 325, 1965.

\*VANILLA Mill.

\**Vanilla mexicana* Mill. — Seen in gardens, 1972.

### PIPERACEAE

PIPER L. (*Pothomorphe* Miq.).

*Piper peltatum* L. (*Pothomorphe peltata* (L.) Miq., B. & W. 5: 229).

### ULMACEAE

CELTIS L. (*Momisia* Dietr.).

*Celtis iguanaea* (Jacq.) Sarg. (*Momisia iguanaea* (Jacq.) Rose & Standl., B. & W. 5: 234).

### MORACEAE

\*ARTOCARPUS Forst.

\**Artocarpus altilis* (Park.) Fosb. (*Artocarpus communis* Forst., B. & W. 5: 241).

FICUS L.

*Ficus citrifolia* Mill. (*Ficus laevigata* Mill., B. & W. 5: 238).

\**Ficus elastica* Roxb. — Seen; small plants planted in some numbers, no large ones seen, 1972.

\**Ficus lyrata* Warb. — Seen; planted in Christiansted.

\**Ficus microcarpa* L. (*Ficus nitida* Thunb.; *Ficus retusa* sensu auct. plur., non L.). Seen in gardens, 1972.

*Ficus obtusifolia* H.B.K. (*Ficus urbaniana* Warb., B. & W. 5: 238; L. & W. 72).

*Ficus trigonata* L. (*Ficus crassinervia* Desf., B. & W. 5: 237).

### URTICACEAE

LAPORTEA Gaud. (*Fleurya* Gaud.).

*Laportea aestuans* (L.) Chew (*Fleurya aestuans* (L.) Gaud., B. & W. 5: 245).

### PROTEACEAE

\*MACADAMIA F. Muell.

\**Macadamia integrifolia* Maiden & Betche. — Seen in garden, 1972.

## POLYGONACEAE

\*ANTIGONON Endl.

\**Antigonon guatemalensis* Meisn. (*Antigonon macrocarpum* Britt. & Small, B. & W. 5: 266). Fide Alain, *Rhodora* 67: 328, 1965.

\**Antigonon leptopus* H. & A. — Near Two Friends, 400', *D'Arcy* 4721 (FA). Common in cultivation and becoming naturalized locally.

COCCOLOBA L. (Conserved orthography. *Coccolobis* P. Br.).

*Coccoloba diversifolia* Jacq. (B. & W. 5: 267; L. & W. 76; *Coccolobis laurifolia* Jacq.). Fide Alain, *Rhodora* 67: 329, 1965 (B. & W. 269).

*Coccoloba microstachya* Willd. (*Coccolobis obtusifolia* Jacq., B. & W. 5: 268). Fide Alain, *Rhodora* 67: 329, 1965. Above W.I. Lab., Teague Bay, *D'Arcy* 4685 (FA); *Hayes* 105 (FA).

## CHENOPODIACEAE

ATRIPLEX L.

*Atriplex littoralis* (Jacq.) Fawc. & Rendle (*Atriplex pentandra* (Jacq.) Standl., B. & W. 5: 272). Fide Alain, *Rhodora* 69: 373, 1967.

## AMARANTHACEAE

\*ACHYRANTHES L., non sensu B. & W. (*Centrostachys* Wall. ex Roxb.).

\**Achyranthes aspera* L. (*Achyranthes indica* (L.) Mill.; *Centrostachys indica* (L.) Standl., B. & W. 5: 278). Belvedere Estate, *D'Arcy* 4711 (FA); Cathrine's Rest, on Granard Road, *Fosberg* 54102 (US, FA).

ALTERNANTHERA Forsk. (*Achyranthes* sensu B. & W., non L.).

*Alternanthera paronychioides* St. Hil. (*Alternanthera polygonoides* sensu B. & W., non (L.) R. Br., B. & W. 5: 279; 6: 344); *Achyranthes polygonoides* sensu B. & W., non (L.) Lam.). Fide Alain, *Rhodora* 67: 329, 1965; Gooding et al., *Fl. Barbados* 138, 1965.

*Alternanthera peploides* (H. & B.) Urb. (*Achyranthes peploides* (H. & B.) Britt., B. & W. 5: 279).

*Alternanthera portoricensis* O. Ktze. (*Achyranthes portoricensis* (O. Ktze.) Standl., B. & W. 5: 280).

*Alternanthera sessilis* (L.) R. Br. ex DC. Canyon above Altona, 200', *Fosberg* 54055 (US, FA).

#### AMARANTHUS L.

\**Amaranthus viridis* L., non sensu B. & W. (*Amaranthus gracilis* Desf., B. & W. 5: 277) Teague Bay, W.I. Lab., *Fosberg* 53986 (US, FA).

#### GOMPHRENA L.

*Gomphrena decumbens* Jacq. Teague Bay, *Hayes* 161 (FA).

### NYCTAGINACEAE

BOERHAVIA L. (*Commicarpus* Standl.).

*Boerhavia scandens* L. (*Commicarpus scandens* (L.) Standl., B. & W. 6: 345).

\*BOUGAINVILLEA Comm. ex Juss.

\**Bougainvillea glabra* Choisy — Teague Bay, W.I. Lab., *Hayes* 145 (FA).

### PORTULACACEAE

PORTULACA L.

*Portulaca rubricaulis* H.B.K. (*Portulaca phaeosperma* Urb., B. & W. 5: 300). Fide LeGrand, An. Mus. Hist. Nat. Montev. 7(3): 48-49, 1962.

### NYMPHAEACEAE

NYMPHAEA L., non sensu B. & W. (*Castalia* Salisb.).

*Nymphaea ampla* (Salisb.) DC. (*Castalia ampla* Salisb., B. & W. 5: 304).

*Nymphaea ampla* var. *pulchella* (DC.) Casp. (*Castalia pulchella* (DC.) Britt., B. & W. 5: 304).

### BASELLACEAE

ANREDERA Juss. (*Boussingaultia* H.B.K.).

*Anredera leptostachys* (Moq.) Steen. (*Boussingaultia leptostachys* Moq., B. & W. 5: 301). Fide Alain, *Rhodora*, 67: 330, 1965.

### LAURACEAE

CINNAMOMUM Schaeff. (*Camphora* Fabr.; *Phoebe* Nees).

\**Cinnamomum camphora* (L.) Nees & Eberm. (*Camphora camphora* (L.) Karst., B. & W. 5: 324).

*Cinnamomum elongatum* (Vahl) Nees (B. & W. 5: 319). Fide Alain, *Rhodora* 67: 331, 1965.

\**Cinnamomum verum* Presl (*Cinnamomum zeylanicum* Bl., B. & W. 5: 324).

LICARIA Aubl. (*Acrodiclidium* Nees).

*Licaria salicifolia* (Sw.) Kost. (*Acrodiclidium salicifolium* (Sw.) Griseb., B. & W. 5: 317; L. & W. 112). Fide Alain, *Rhodora* 67: 330, 1965.

\*PERSEA Mill.

\**Persea americana* Mill. (*Persea persea* (L.) Cocker., B. & W. 5: 318; L. & W. 128).

### CRUCIFERAE (Brassicaceae)

\*BRASSICA L.

\**Brassica oleracea* L. — Seen in garden, 1972.

\*RORIPPA Scop. (*Nasturtium* R. Br. *Sisymbrium* sensu B. & W., non L.).

\**Rorippa nasturtium-aquaticum* (L.) Hayek (*Sisymbrium nasturtium-aquaticum* L., B. & W. 5: 329; *Nasturtium officinale* R. Br.).

\**Rorippa portoricense* (Spreng.) Stehlé — Wells Nursery, Fountain Valley, Fosberg 54070 (US). Locally common weed.

### CAPPARIDACEAE

CLEOME L.

\**Cleome viscosa* L. (*Cleome icosandra* L., B. & W. 5: 331).



**MORINGACEAE**

\***MORINGA** Adans.

\**Moringa oleifera* Lam. (*Moringa moringa* (L.) Millsp., B. & W. 5: 337).

**CRASSULACEAE**

\***KALANCHOE** Adans. (*Bryophyllum* Salisb.).

\**Kalanchoe pinnata* (Lam.) Pers. (*Bryophyllum pinnatum* (Lam.) Kurz, B. & W. 5: 338).

\**Kalanchoe tubiflora* Hamet — Seen planted, 1972.

A number of other species of this genus are found in gardens or escaping.

**ROSACEAE**

\***PRUNUS** L. (*Amygdalus* L.).

\**Prunus persica* (L.) Batsch. (*Amygdalus persica* L.).

**LEGUMINOSAE-MIMOSOIDEAE** (Mimosaceae)

**ACACIA** Willd. (*Vachellia* W. & A.).

*Acacia farnesiana* (L.) Willd. (*Vachellia farnesiana* (L.) W. & A., B. & W. 5: 352).

**CALLIANDRA** Benth.

\**Calliandra haematocephala* Hassk. — Teague Bay, cultivated, *Multer* 36 (FA).

**DESMANTHUS** Willd. (*Acuan* Medic.).

*Desmanthus depressus* H. & B. (*Acuan depressum* (H. & B.) O. Ktze., B. & W. 5: 356).

*Desmanthus virgatus* (L.) Willd. (*Acuan virgatum* (L.) Medic., B. & W. 5: 356).

**LEUCAENA** Benth.

\**Leucaena leucocephala* (Lam.) deWit (*Leucaena glauca* sensu B. & W., non (L.) Benth., B. & W. 5: 355).

**PROSOPIS** L.

\**Prosopis limensis* Benth. Fide Alain. (*Rhod.* 67: 332).

**LEGUMINOSAE-CAESALPINOIDEAE** (Caesalpinaceae)

**BAUHINIA** L.

- \**Bauhinia blakeana* Dunn. — Cruzan Garden, Calquhourn, *Baumwell* 7 (FA).
- \**Bauhinia coccinea* DC. — Seen in gardens, 1972.
- \**Bauhinia variegata* L. — Christiansted, *Baumwell* 1 (FA). Cultivated.

**CAESALPINIA** L. (*Guilandina* L.; *Poinciana* L.).

- Caesalpinia bonduc* (L.) Roxb. (*Guilandina crista* sensu B. & W., non L., B. & W. 5: 378). East of south of Westend Saltpond, west of Concordia, *Baumwell* 8 (FA).
- Caesalpinia divergens* Urb. (*Guilandina divergens* (Urb.) Britt., B. & W. 5: 379). East of south arm of Westend Saltpond, west of Concordia, *Baumwell* 9 (FA).
- Caesalpinia melanosperma* (Eggers) Urb. (*Guilandina melanosperma* Eggers, B. & W. 5: 380). North coast of East End east of Cramer Park, *Fosberg* 54063 (US, FA).

The last two are perhaps too close together, at least as to St. Croix specimens.

- \**Caesalpinia pulcherrima* (L.) Sw. (*Poinciana pulcherrima* L., B. & W. 5: 376).

**CASSIA** L. (*Peiranisia* Raf.; *Herpetica* Raf.; *Senna* Mill.; *Adipera* Raf.; *Ditremexa* Raf.; *Emelista* Raf.; *Chamaecrista* Moench).

- Cassia alata* L. (*Herpetica alata* (L.) Raf., B. & W. 5: 374).
- Cassia angustifolia* Vahl (*Senna angustifolia* (Vahl) Batka, B. & W. 5: 373).
- Cassia bicapsularis* L. (*Adipera bicapsularis* (L.) B. & R., B. & W. 3: 370).
- Cassia diffusa* DC. (*Chamaecrista chamaecrista* sensu B. & W., non (L.) Britt., B. & W. 5: 367). Scenic Road, near Parasol Hill, 600 ft., *Baumwell* 4 (FA).
- \**Cassia fruticosa* Mill. — Cruzan Garden, Calquhourn, *Baumwell* 2 (FA). Cultivated.

- Cassia glandulosa* var. *swartzii* (Wikstr.) Macbr. (*Cassia swartzii* Wikstr.; *Chamaecrista swartzii* (Wikstr.) Britt., B. & W. 5: 366).
- \**Cassia javanica* L. (Fide Alain, *Rhodora* 67: 332). (*Cassia nodosa* Hamilt., B. & W. 5: 369). Seen in gardens, 1972.
- Cassia obtusifolia* L. (*Emilista tora* (L.) B. & R., B. & W. 5: 371).
- Cassia occidentalis* L. (*Ditremexa occidentalis* (L.) B. & R., B. & W. 5: 372).
- Cassia polyphylla* Jacq. (*Peiranisia polyphylla* (Jacq.) B. & R., B. & W. 5: 373).
- Cassia portoricensis* Urb. (*Chamaecrista portoricensis* (Urb.) Cook & Collins, B. & W. 5: 367). Scenic Road, near Parasol Hill, *Baumwell* 5 (FA).

#### LEGUMINOSAE-LOTOIDEAE (Fabaceae)

##### ABRUS L.

- Abrus precatorius* L. (*Abrus abrus* (L.) F. W. Wight, B. & W. 5: 411).

##### AESCHYNOMENE L.

- Aeschynomene sensitiva* Sw. East end of Airport, *Kaufman* 18 (FA).

##### ANDIRA Lam. (*Geoffrea* Wright).

- Andira inermis* H.B.K. (*Geoffrea inermis* (H.B.K.) Wright). Beck Grove, *Fosberg* 53954, 53954a (US, FA). Fruits eaten by bats. 53954a stones picked up under bat roost. Alain, *Rhodora* 69: 374, 1969 accepts the segregate genus, *Geoffrea* Wright.

##### \*CAJANUS DC. (*Cajan* Adans.).

- \**Cajanus cajan* (L.) Millsp. (*Cajan cajan* (L.) Millsp., B. & W. 5: 414).

##### CANAVALIA Adans. ex DC. (Conserved orthography. *Canavali* Adans.).

- Canavalia rosea* (Sw.) DC. (*Canavalia maritima* (Aubl.) Thou., B. & W. 5: 419).

CENTROSEMA Benth. (*Bradburya* Raf.).

*Centrosema virginiana* (L.) Benth. (*Bradburya virginiana* (L.) O. Ktze., B. & W. 5: 413).

CHRISTIA Moench (*Lourea* Neck. ex Desv.).

*Christia vespertilionis* (L. f.) Bakh. f. (*Lourea vespertilionis* (L.) Desv., B. & W. 5: 429).

DALBERGIA L. f. (*Ecastophyllum* Adans.).

*Dalbergia ecastophyllum* (L.) Taub. (*Ecastophyllum ecastophyllum* (L.) Britt., B. & W. 5: 406).

DESMODIUM Desv. (*Meibomia* Heist.; *Sagotia* Duch. & Walp.).

*Desmodium axillare* (Sw.) DC. (*Meibomia axillaris* (Sw.) O. Ktze., B. & W. 5: 402).

*Desmodium canum* (J. F. Gmel.) Schinz & Thell. (*Meibomia supina* (Sw.) Britt., B. & W. 5: 401). Bodkin Mill, 930', Fosberg 54040 (US, FA).

*Desmodium procumbens* (Mill.) Hitchc. (*Meibomia procumbens* (Mill.) Hitchc., B. & W. 5: 404).

*Desmodium tortuosum* (Sw.) DC. (*Meibomia purpureum* (Mill.) Vail, B. & W. 5: 404).

*Desmodium scorpiurus* (Sw.) Desv. (*Meibomia scorpiurus* (Sw.) O. Ktze., B. & W. 5: 403).

*Desmodium triflorum* (L.) DC. (*Sagotia triflora* (L.) Duch. & Walp., B. & W. 5: 404).

PISCIDIA L. (*Ichthyomethia* P. Br.).

*Piscidia piscipula* (L.) Sarg. (*Ichthyomethia piscipula* (L.) Hitchc., B. & W. 5: 509).

RHYNCHOSIA Lour. (*Dolicholus* Medic.).

*Rhynchosia minima* (L.) DC. (*Dolicholus minimus* (L.) Medic., B. & W. 5: 416).

*Rhynchosia reticulata* (Sw.) DC. (*Dolicholus reticulatus* (Sw.) Millsp., B. & W. 5: 415).

SESBANIA Scop. (*Sesban* Adans.; *Agati* Adans.).

\**Sesbania grandiflora* (L.) Pers. (*Agati grandiflora* (L.) Desv., B. & W. 5: 396).

*Sesbania sericea* (Willd.) DC. (*Sesban sericea* (Willd.) DC., B. & W. 5: 395).

\**Sesbania sesban* (L.) Merr. (*Sesban sesban* (L.) Britt., B. & W. 5: 395).

STIZOLOBIUM P. Br.

*Stizolobium pruriens* (L.) Medic. (*Stizolobium prurimum* (Wight) Piper, B. & W. 5: 426). Fide Alain, *Rhodora* 65: 335, 1967.

TEPHROSIA Pers. (*Cracca* L.).

*Tephrosia cinerea* (L.) Pers. (*Cracca cinerea* (L.) Morong, B. & W. 5: 391).

VIGNA Savi

*Vigna luteola* (Jacq.) Benth. (*Vigna repens* (L.) O. Ktze., non Bak., B. & W. 5: 422).

#### OXALIDACEAE

OXALIS L. (*Ionoxalis* Small; *Xanthoxalis* Small).

*Oxalis corniculata* L. (*Xanthoxalis corniculata* (L.) Small, B. & W. 5: 431).

*Oxalis corymbosa* DC. (*Ionoxalis martiana* (Zucc.) Small).

*Oxalis intermedia* A. Rich. (*Ionoxalis intermedia* (A. Rich.) Small, B. & W. 5: 431).

#### ERYTHROXYLACEAE

ERYTHROXYLON L.

*Erythroxylon rotundifolium* Lunan (*Erythroxylon brevipes* DC., B. & W. 5: 433). Fide Alain, *Rhodora* 67: 335, 1965.

#### RUTACEAE

\*CITRUS L.

\**Citrus limon* (L.) Burm. f. var. Rough, or Rough-skinned lemon. — Seen in gardens, 1972.

\**Citrus nobilis* Lour. — Seen in gardens, 1972.

\*MURRAYA Koen. ex L. (*Chalcas* L.).

\**Murraya paniculata* (L.) Jack (*Murraya exotica* L.; *Chalcas exotica* (L.) Millsp., B. & W. 5: 545).

**BURSERACEAE**

BURSEREA L. (*Elaphrium* Jacq.).

*Bursera simaruba* L. (*Elaphrium simaruba* (L.) Rose, B. & W. 5: 461).

**MELIACEAE**

\*AZADIRACHTA A. Juss.

\**Azadirachta indica* A. Juss. — Seen in gardens, 1972.

\*CHUKRASIA A. Juss.

\**Chukrasia tabularis* A. Juss. — Seen in gardens, 1972, introduced as a timber tree.

**MALPIGHIACEAE**

BYRSONIMA Rich.

*Byrsonima coriacea* var. *spicata* (Cav.) DC. (*Byrsonima spicata* Cav., B. & W. 5: 447).

*Byrsonima lucida* DC. — Sandy Point, s.w. of Westend Saltpond, *Fosberg* 54086 (US, FA); *Frederiksen* 17-21 (FA); *Fosberg* 55361 (US, FA, FO).

GALPHIMIA Cav.

\**Galphimia glauca* Cav. (*Thryallis glauca* (Cav.) O. Ktze., B. & W. 5: 442).

HETEROPTERIS Kunth (*Banisteria* sensu B. & W., non L. as to St. Croix plants, acc. Alain, *Rhodora* 67: 335.)

*Heteropteris laurifolia* (L.) Juss. (*Banisteria laurifolia* L., B. & W. 5: 440).

*Heteropteris purpurea* (L.) Kunth (*Banisteria purpurea* L., B. & W. 5: 439).

MALPIGHIA L.

\**Malpighia coccigera* L. — Seen in gardens, 1972.

\**Malpighia puniceifolia* L. — Seen in gardens, 1972.

STIGMAPHYLLON A. Juss.

*Stigmaphyllon periplocifolium* (Desf.) Juss. (*Stigmaphyllon lingulatum* (Poir.) Small, B. & W. 5: 441).

## EUPHORBIACEAE

ADELIA L. (*Ricinella* M.-A.)

*Adelia ricinella* L. (*Ricinella ricinella* (L.) Brit., B. & W. 5: 488; *Ricinella pedunculosa* M.-A.)

\*CODIAEUM A. Juss.

\**Codiaeum variegatum* (L.) Bl. — Seen commonly in gardens, 1972.

EUPHORBIA L. (*Aklema* Raf.; *Chamaesyce* S. F. Gray; *Dichyllum* (Boiss.) Britt.; *Poinsettia* R. Grah.)

\**Euphorbia antiquorum* L. — Seen in gardens, 1972.

*Euphorbia articulata* Aubl. (*Chamaesyce articulata* (Aubl.) Britt., B. & W. 5: 505).

*Euphorbia cyathophora* Murr. (*Poinsettia cyathophora* (Murr.) Kl. & Gke., B. & W. 5: 498).

*Euphorbia glomerifera* (Millsp.) Wheeler (*Chamaesyce hypericifolia* sensu B. & W., non *Euphorbia hypericifolia* L., B. & W. 5: 501).

*Euphorbia heterophylla* L. (*Poinsettia heterophylla* (L.) Kl. & Gke., B. & W. 5: 498).

*Euphorbia hirta* L. (*Chamaesyce hirta* (L.) Millsp., B. & W. 5: 502).

*Euphorbia hypericifolia* L. (*Chamaesyce nutans* (Lag.) Small, B. & W. 5: 501).

\**Euphorbia leucocephala* Lotsy. — Seen in gardens, 1972.

*Euphorbia mesembrianthemifolia* Jacq. (*Euphorbia buxifolia* Lam.; *Chamaesyce buxifolia* (Lam.) Small, B. & W. 5: 504).

\**Euphorbia milii* Moul. (*Euphorbia splendens* Bojer.) Seen in gardens, 1972.

*Euphorbia oerstedianum* Kl. & Gke. (*Dychyllum oerstedianum* (Kl. & Gke.) Britt., B. & W. 5: 499).

*Euphorbia petiolaris* Sims (*Aklema petiolare* (Sims) Millsp., B. & W. 5: 500).

\**Euphorbia prostrata* Ait. (*Chamaesyce prostrata* (Ait.) Small, B. & W. 5: 503).

- \**Euphorbia pulcherrima* Willd. (*Poinsettia pulcherrima* (Willd.) R. Grah.) Seen in gardens, 1972.  
*Euphorbia serpens* H.B.K. (*Chamaesyce serpens* (H.B.K.) Small, B. & W. 5: 502).  
 \**Euphorbia thymifolia* L. (*Chamaesyce thymifolia* (L.) Millsp., B. & W. 5: 503).  
 \**Euphorbia tirucalli* L. Seen in gardens, 1972.

JATROPHA L. (*Adenoropium* Pohl; *Curcas* Adans.).

- \**Jatropha curcas* L. (*Curcas curcas* (L.) Britt. & Millsp., B. & W. 5: 484).  
*Jatropha gossypifolia* L. (*Adenoropium gossypifolium* (L.) Pohl, B. & W. 5: 485).  
 \**Jatropha integerrima* Jacq., Sel. Stirp. Amer. 256, Pl. 183, f. 74 [really 47 in plate], 1763. Seen in gardens, 1972.  
 \**Jatropha integerrima* var. *hastata* (Jacq.) Fosberg, comb. nov. (*Jatropha hastata* Jacq., Sel. Stirp. Amer. 256, Pl. 173, f. 54, 1763.)

There seems no reason to disagree with McVaugh (Bull. Torr. Bot. Cl. 72: 274-275, 1945) that the group of *Jatropha* to which this plant belongs may best be regarded as composed of a single variable species, for which he chooses the name *J. integerrima* Jacq. However, some of the populations that have been given specific rank do really seem to exist, even though based principally on leaf characters. *Jatropha hastata* Jacq. characterized by broadly ovate-cordate, hastate leaves, is one such. It may well be that this distinctive population owes its numbers to vegetative horticultural multiplication. However, this only indicates a possible origin of the population, not its characteristics. Giving it varietal rank enables us to talk about it.

- \**Jatropha multifida* L. (*Adenoropium multifidum* (L.) Pohl, B. & W. 5: 485).  
 \**Jatropha podagrica* Hook. — Seen in gardens.  
 \*MANIHOT Adans.  
 \**Manihot esculenta* Crantz (*Manihot utilissima* Pohl; *Manihot manihot* (L.) Cocker., B. & W. 5: 493).



PHYLLANTHUS L. (*Cicca* L.)

\**Phyllanthus acidus* (L.) Skeels (*Cicca disticha* L., B. & W. 5: 475).

#### BUXACEAE

BUXUS L. (*Tricera* Sw.)

*Buxus vahlii* Baill. (*Tricera vahlii* (Baill.) Britt., B. & W. 5: 508).

#### ANACARDIACEAE

\*SCHINUS L.

\**Schinus terebinthifolius* Raddi — Teague Bay, *Hayes* 135 (FA).

#### CELASTRACEAE

CASSINE L. (*Elaeodendron* Jacq.)

*Cassine xylocarpa* Vent. (*Elaeodendron xylocarpum* (Vent.) DC., B. & W. 5: 519).

CROSSOPETALUM P. Br. (*Rhacoma* L.)

*Crossopetalum rhacoma* Crantz (*Rhacoma crossopetalum* L., B. & W. 5: 517).

#### SAPINDACEAE

CARDIOSPERMUM L.

*Cardiospermum halicacabum* var. *microcarpum* (H.B.K.) Bl. (*Cardiospermum microcarpum* H.B.K., B. & W. 5: 525).

#### RHAMNACEAE

COLUBRINA Rich.

*Colubrina arborescens* (Mill.) Sarg. (*Colubrina colubrina* (Jacq.) Millsp., B. & W. 5: 536).

ZIZYPHUS Mill. (*Sarcomphalus* P. Br.)

\**Zizyphus mauritiana* Lam. — Seen commonly on roadsides, 1972.

*Zizyphus reticulata* Vahl (*Sarcomphalus reticulatus* (Vahl) Urb., B. & W. 5: 534).

**TILIACEAE****TRIUMFETTA** L.

*Triumfetta rhomboidea* Jacq. (*Triumfetta bartramia* (L.) L., B. & W. 5: 544; *Triumfetta excisa* Urb., B. & W. 5: 544).

**MALVACEAE****ABUTILON** Mill.

*Abutilon americanum* (L.) Sweet (*Abutilon abutiloides* (Jacq.) Garcke, B. & W. 5: 547).

**\*GOSSYPIUM** L.

\**Gossypium arboreum* var. *nadam* (Watt) Prokh. (*Gossypium barbadense* sensu B. & W. 5: 567, non L.). Fide Alain, Rhod. 67: 340, 1065.

\**Gossypium hirsutum* L. — Christiansted, Fosberg 53936 (US, FA).

**HIBISCUS** L. (*Abelmoschus* Medic.; *Pariti* Adans.)

\**Hibiscus esculentus* L. (*Abelmoschus esculentus* (L.) Moench, B. & W. 5: 564). Seen in gardens, 1972.

\**Hibiscus schizopetalus* L. — Seen in gardens, 1972.

*Hibiscus tiliaceus* L. (*Pariti tiliaceum* (L.) St. Hil., B. & W. 5: 567).

**MALVASTRUM** A. Gray

*Malvastrum americanum* (L.) Torr. (*Malvastrum spicatum* (L.) A. Gray, B. & W. 5: 550).

**PAVONIA** Car. (*Malache* Vogel).

*Pavonia scabra* (Vogel) Ciferri (*Malache scabra* Vogel, B. & W. 5: 560).

**SIDA** L.

*Sida acuta* Burm. f. (*Sida carpinifolia* L. f.).

*Sida pyramidata* Desf. Teague Bay, Fosberg 53982 (US, FA).

*Sida salviaefolia* Presl (*Sida erecta* Macf.).

**STERCULIACEAE****AYENIA** L.

*Ayenia insularis* Crist. (*Ayenia pusilla* sensu B. & W., non L., B. & W. 5: 574).

\*BRACHYCHITON Schott & Endl. (*Sterculia* L. p.p., sensu B. & W.).

\*Brachychiton populneum R. Br. (*Sterculia diversifolia* G. Don, B. & W. 5: 576).

GUAZUMA Adans.

*Guazuma ulmifolia* Lam. (*Guazuma guazuma* (L.) Cocker., B. & W. 5: 575).

MELOCHIA L. (*Moluchia* Medic.).

*Melochia pyramidata* L. (*Moluchia pyramidata* (L.) Britt., B. & W. 5: 572). Fide Goldberg, Contr. U.S.N.H. 34: 337-341, 1967.

*Melochia tomentosa* L. (*Moluchia tomentosa* (L.) Britt., B. & W. 5: 571). Goldberg, Contr. U.S.N.H. 34: 327-373, 1967, admits two varieties of this species, var. *tomentosa* and var. *frutescens* (Jacq.) DC., from St. Croix, but the characters by which they are separated are not convincing and, at least in St. Croix, field observations do not suggest two genetically distinct populations.

WALTHERIA L.

*Waltheria indica* var. *americana* (L.) R. Br. ex Hosaka (*Waltheria americana* L., B. & W. 5: 573).

#### GUTTIFERAE (Clusiaceae)

CALOPHYLLUM L.

*Calophyllum calaba* L. (*Calophyllum brasiliense* var. *antillanum* (Britt.) Standl., L. & W. 352; *Calophyllum antillanum* Britt., B. & W. 5: 584; Synonymy acc. Howard, Jour. Arn. Arb. 43: 397-8, 1963).

#### FLACOURTIACEAE

XYLOSMA Forst. f. (*Myroxylon* Forst.).

*Xylosma buxifolia* A. Gray (*Myroxylon buxifolium* (A. Gray) Kr. & Urb., B. & W. 5: 593).

## PASSIFLORACEAE

## PASSIFLORA L.

*Passiflora foetida* var. *hispida* (DC.) Killip — Belvedere Estate, *D'Arcy* 4740 (FA).

*Passiflora suberosa* L. (*Passiflora pallida* L., B. & W. 5: 602).

## CUCURBITACEAE

## \*CUCUMIS L.

\**Cucumis sativus* L. — Seen in gardens.

\*CUCURBITA L. (*Pepo* Mill.).

\**Cucurbita ficifolia* Bouché (*Pepo ficifolia* (Bouché) Britt., B. & W. 6: 266).

\**Cucurbita moschata* (Duch.) Duch. & Pou. (*Pepo moschata* (Duch.) Britt., B. & W. 6: 265).

\*LAGENARIA Ser. (*Cucurbita* sensu B. & W., non L.).

\**Lagenaria siceraria* (Mol.) Standl. (*Cucurbita lagenaria* L., B. & W. 6: 262).

## CACTACEAE

CEREUS Mill. (*Acanthocereus* B. & R.; *Hylocereus* B. & R.; *Selenicereus* B. & R.).

*Cereus grandiflorus* (L.) Mill. (*Selenicereus grandiflorus* (L.) B. & R., B. & W. 5: 616).

*Cereus pentagonus* (L.) Harv. (*Acanthocereus pentagonus* (L.) B. & R., B. & W. 5: 614).

*Cereus pteranthus* L. & O. (*Selenicereus pteranthus* (L. & O.) B. & R., B. & W. 5: 616).

*Cereus trigonus* Haw. (*Hylocereus trigonus* (Haw.) Saff., B. & W. 5: 615).

*Cereus undatus* Haw. (*Hylocereus undatus* (Haw.) B. & R., B. & W. 5: 615).

MELOCACTUS Link & Otto (*Cactus* L. p.p. sensu B. & W.).

*Melocactus intortus* (Mill.) Urb. (*Cactus intortus* Mill.).

## \*PERESKIA Mill.

\**Pereskia aculeata* Mill. (*Pereskia pereskia* (L.) Karst., B. & W. 5: 608).

**LYTHRACEAE**

\*LAGERSTROEMIA L.

\*Lagerstroemia indica L. — Seen in gardens, 1972.

**COMBRETACEAE (Terminaliaceae)**

\*QUISQUALIS L.

\*Quisqualis indica L. — Seen in gardens, 1972.

**LECYTHIDACEAE**

\*BARRINGTONIA Forst.

\*Barringtonia asiatica (L.) Kurz. Seen in 1972, planted.

**MYRTACEAE**

EUGENIA L. (*Jambos* Adans.).

\*Eugenia jambos L. (*Jambos jambos* (L.) Millsp., B. & W. 6: 41).

\*Eugenia malaccensis L. (*Jambos malaccensis* (L.) DC., B. & W., 6: 41).

PIMENTA Lindl. (*Amomis* Berg.).

\*Pimenta dioica (L.) Merr. (*Pimenta pimenta* (L.) Cocker., B. & W. 6: 42).

*Pimenta racemosa* (Mill.) J. W. Moore (*Caryophyllus racemosa* Mill.; *Amomis caryophyllata* (Jacq.) Krug. & Urb., B. & W. 6: 27; *Pimenta acris* (Sw.) Kostel.).

PSIDIUM L.

\*Psidium cattleianum Sabine — Seen in gardens, 1972.

**ONAGRACEAE**

LUDWIGIA L. (*Jussiaea* L.).

*Ludwigia erecta* (L.) Hara (*Jussiaea erecta* L., B. & W. 6: 46).

*Ludwigia octovalvis* (Jacq.) Raven (*Jussiaea angustifolia* sensu B. & W., non Lam., B. & W. 6: 46).

**ARALIACEAE**

\*POLYSCIAS Forst.

\*Polyscias fruticosa (L.) Harms — Seen in gardens, 1972.

\*Polyscias guilfoylei (Bull) Bailey — Seen in gardens, 1972.

\**Polyscias tricochleata* (Mig.) Fosb. Seen in gardens, 1972.

\*SCHEFFLERA Forst.

\**Schefflera actinophylla* (Endl.) Harms (*Brassaia actinophylla* Endl.). Teague Bay, W.I. Lab., *Multer* 56 (FA).

### THEOPHRASTACEAE

JACQUINIA L.

*Jacquinia arborea* Vahl (*Jacquinia barbasco* sensu B. & W., non (Loefl.) Mez., B. & W. 6: 62). Salt River Inlet. *D'Arcy* 4722 (FA).

### MYRSINACEAE

ARDISIA Sw. (*Icacorea* Aubl.).

*Ardisia obovata* Desv. (*Icacorea guadalupensis* (Duch.) Britt., B. & W. 6: 57).

### PLUMBAGINACEAE

PLUMBAGO L.

\**Plumbago auriculata* Lam. (*Plumbago capensis* Thunb.). Teague Bay, *Multer* 55 (FA).

\**Plumbago indica* L. — Seen in garden, 1972.

*Plumbago zeylanica* L. — Reported by West fide B. & W. 6: 63. This is an Indo-Pacific species similar to *P. scandens* L. The St. Croix record is doubtless based upon a misidentification of material of *P. scandens* and should be deleted from the St. Croix flora.

### SAPOTACEAE

MANILKARA Adans. (*Achras* L.).

*Manilkara zapota* (L.) v. Royen (*Achras zapota* L., B. & W. 6: 67).

POUTERIA Aubl.

*Pouteria multiflora* (A. DC.) Baehni (*Lucuma multiflora* A. DC., B. & W. 6: 67).

### OLEACEAE

JASMINUM L.

\**Jasminum fluminense* Vell. Naturalized in canyon on

north slope, Altona-Longford Road, about 110 m. *Fosberg* 54044 (US, FO, FA).

\**Jasminum multiflorum* (Burm. f.) Andr. (*Jasminum pubescens* (Retz.) Willd., B. & W. 6: 80).

### APOCYNACEAE

\*ADENIUM R. & S.

\**Adenium coetaneum* Stapf. Seen in gardens, 1972.

\*ALLAMANDA L.

\**Allamanda hendersonii* Bull. — Seen in gardens, 1972.

\*CARISSA L.

\**Carissa macrocarpa* (Eckl.) A. DC. Seen in gardens, 1972.

\*NERIUM L.

\**Nerium oleander* L. — Seen in gardens; O. & B. 76-78.

\**Nerium oleander* var. *indicum* (Mill.) Deg. & Greenw. (*Nerium indicum* Mill.). Seen in gardens, 1972.

PLUMERIA L. (*Plumiera* L., orthographic variant. B. & W. 1: 87).

PRESTONIA P. Br.

*Prestonia agglutinata* (Jacq.) Woods. (*Echites agglutinata* Jacq., B. & W. 6: 92).

RAUVOLFIA L.

*Rauvolfia nitida* Jacq. (*Rauvolfia tetraphylla* sensu B. & W., non L., B. & W. 6: 90).

TABERNAEMONTANA L.

\**Tabernaemontana divaricata* (L.) R. Br. (*Tabernaemontana coronaria* Willd.; *Ervatamia divaricata* (L.) Burk.). Seen in gardens.

\*THEVETIA Juss. ex Endl. (*Cerbera* sensu B. & W., non L.).

\**Thevetia peruviana* (L.) Pers. (*Cerbera thevetia* L., B. & W. 6: 91).

## ASCLEPIADACEAE

\*CRYPTOSTEGIA R. Br.

\**Cryptostegia grandiflora* (Roxb.) R. Br. — Seen in gardens; O. & B. 38-39.

CYNANCHUM L. (*Metastelma* R. Br.).

*Cynanchum grisebachianum* (Schltr.) Alain (*Metastelma decaisneanum* Schltr., B. & W. 6: 98).

*Cynanchum parviflorum* Sw. (*Metastelma parviflora* R. Br., B. & W. 6: 97).

MATELEA Aubl. (*Ibatia* Decne.).

*Matelea maritima* (Jacq.) Woods. (*Ibatia maritima* (Jacq.) Decne., B. & W. 6: 99).

SARCOSTEMMA R. Br. (*Funastrum* Fourn.).

*Sarcostemma clausum* (Jacq.) R. & S. (*Funastrum clausum* (Jacq.) Schltr., B. & W. 6: 99).

\*STEPHANOTIS Thou.

\**Stephanotis floribunda* Brongn. — Seen in gardens, 1972.

## CONVOLVULACEAE (Incl. Cuscutaceae)

EVOLVULUS L.

*Evolvulus alsinoides* var. *linifolius* (L.) Bak. (*Evolvulus linifolius* L., B. & W. 6: 105).

IPOMOEA L. (*Calonyction* Choisy; *Exogonium* Choisy; *Quamoclit* Moench).

*Ipomoea alba* L. (*Calonyction aculeatum* (L.) House, B. & W. 6: 107).

*Ipomoea fistulosa* Mart. ex Choisy. — Teague Bay, The Reef, *D. Smith* 16 (FA).

*Ipomoea hederifolia* L. (*Quamoclit coccinea* sensu B. & W., non (L.) Moench, B. & W. 6: 109).

*Ipomoea macrantha* R. & S. (*Calonyction tuba* (Schlecht.) Colla, B. & W. 6: 108; *Ipomoea tuba* (Schlecht.) G. Don).

*Ipomoea pes-caprae* subsp. *brasiliensis* (L.) v. Ooststr. (*Ipomoea pes-caprae* sensu B. & W. 6: 113, non *Ipomoea pes-caprae* (L.) L. var. *pes-caprae*).



*Ipomoea quamoclit* L. (*Quamoclit quamoclit* (L.) Britt., B. & W. 6: 108).

*Ipomoea solanifolia* L. (*Exogonium solanifolium* (L.) Britt., B. & W. 6: 109).

*Ipomoea steudelii* Millsp. (*Exogonium arenarium* Choisy; *Ipomoea arenaria* (Choisy) Steud., non R. & S., B. & W. 6: 110).

*Ipomoea violacea* L. (*Ipomoea tricolor* Cav., B. & W. 6: 47).

JACQUEMONTIA Choisy (*Thyella* Raf.).

*Jacquemontia cumanensis* var. — East Point, Fosberg 54016 (US, FA).

*Jacquemontia tamnifolia* (L.) Griseb. (*Thyella tamnifolia* Raf., B. & W. 6: 107).

MERREMIA Dennst.

*Merremia aegyptia* (L.) Urb. (*Ipomoea aegyptia* L., B. & W. 6: 112).

*Merremia quinquefolia* (L.) Hall. f. (*Ipomoea quinquefolia* L., B. & W. 6: 114).

*Merremia tuberosa* (L.) Rendle (*Operculina tuberosa* (L.) Meissn., B. & W. 6: 118).

*Merremia umbellata* (L.) Hall. f. (*Ipomoea polyanthes* R. & S.).

STICTOCARDIA Hall. f.

*Stictocardia campanulata* (L.) Merr. (*Rivea campanulata* (L.) House).

### HYDROPHYLLACEAE

NAMA L. (*Marilaunidium* O. Ktze.).

*Nama jamaicensis* L. (*Marilaunidium jamaicense* (L.) O. Ktze.).

### BORAGINACEAE (Incl. Ehretiaceae)

CORDIA L. (*Calyptrocordia* Britt.; *Cerdana* R. & P.; *Varronia* P. Br.).

*Varronia* may be a distinct genus, judging by palynological evidence (Nowicke, pers. comm.) but until its morpho-

logical characters are more clearly set forth we will regard it as a well marked section of *Cordia*.

*Cordia alliodora* (R. & P.) Oken (*Cerdana alliodora* R. & P., B. & W. 6: 123).

*Cordia dentata* Poir. (*Calyptrcordia alba* sensu B. & W. 6: 123, non *Cordia alba* (Jacq.) R. & S.).

*Cordia globosa* (Jacq.) H.B.K. (*Varronia globosa* Jacq., B. & W. 6: 127).

*Cordia polycephala* (Lam.) Johnst. (*Varronia corymbosa* (L.) Desv., B. & W. 6: 127).

*Cordia rickseckeri* Millsp. East End, North Coast, Fosberg 54062 (US).

\**Cordia sebestena* L. — Seen in gardens, 1972.

*Cordia stenophylla* Alain (*Varronia angustifolia* West, B. & W. 6: 126).

HELIOTROPIUM L. (*Schobera* Scop.; *Tiaridium* Lehm.).

*Heliotropium angiospermum* Mun. (*Schobera angiosperma* (Mun.) Britt., B. & W. 6: 135).

*Heliotropium indicum* L. (*Tiaridium indicum* (L.) Lehm., B. & W. 6: 134).

TOURNEFORTIA L. (*Mallotonia* Britt.).

*Tournefortia gnaphalodes* L. (*Mallotonia gnaphalodes* (L.) Britt., B. & W. 6: 131).

*Tournefortia volubilis* L. (*Tournefortia microphylla* Bert., B. & W. 6: 134).

## VERBENACEAE

AVICENNIA L.

*Avicennia germinans* (L.) L. (*Avicennia nitida* Jacq.).

CLERODENDRUM L. (*Siphonanthus* L.; *Volkameria* L.; *Clerodendron* L.).

*Clerodendrum aculeatum* (L.) Schlecht. (*Volkameria aculeata* L., B. & W. 6: 150).

*Clerodendrum indicum* (L.) O. Ktze. (*Siphonanthus indicus* L., B. & W. 6: 151).

*Clerodendrum inerme* (L.) Gaertn. Fide Alain, *Rhodora* 67: 350, 1965, but rather unlikely in St. Croix.

LANTANA L.

*Lantana arida* Britt. — Fide Alain, *Rhodora* 67: 349, 1965.

*Lantana camara* var. *aculeata* (L.) Mold. (*Lantana aculeata* L., B. & W. 6: 140).

*Lantana insularis* Mold. — Fide Alain, *Rhodora* 67: 349, 1965.

*Lantana involucrata* f. *candida* Fosb. n. f. *Ab var. involucrata floribus albis differt*. Flowers white, rather than light purple. St. Croix; east of South arm of Westend Saltpond, west of Concordia, on sand flats, *Fosberg* 54079 (US, type, FA).

*Lantana involucrata* var. *odorata* (L.) Mold. — Fide Alain, *Rhodora* 67: 349, 1965.

LIPPIA L. (*Phyla* Lour.).

*Lippia nodiflora* var. *reptans* (H.B.K.) O. Ktze. (*Lippia reptans* H.B.K.; *Phyla nodiflora* var. *reptans* (H.B.K.) Mold.).

*Lippia strigulosa* Mart. & Gal. f. *parvifolia* (Mold.) Fosberg, new comb. (*Phyla yucatana* var. *parvifolia* Moldenke, *Phytologia* 2: 141, 1946; *Phyla strigulosa* var. *parvifolia* (Mold.) Mold., *Phytologia* 2: 233, 1947; *Phyla strigulosa* f. *parvifolia* (Mold.) Mold. ex Alain, *Rhodora* 67: 349, 1965; Fide Alain, l.c., sub *Phyla*).

\*PETRAEA L.

\**Petraea volubilis* L. — Seen in gardens, 1972.

STACHYTARPHETA Vahl (*Valerianoides* Medic.).

*Stachytarpheta jamaicensis* (L.) Vahl (*Valerianoides jamaicensis* (L.) O. Ktze., B. & W. 6: 144).

VERBENA L.

\**Verbena tenuisecta* Briq. ? Seen in garden, 1972.

VITEX L.

*Vitex negundo* var. *intermedia* (P'ei) Mold. — Fide Alain, *Rhodora* 67: 349, 1965.

## ACANTHACEAE

\*ASYSTASIA Bl.

\**Asystasia gangetica* (L.) T. Anders. — Seen in gardens, 1972.

BLECHUM P. Br.

*Blechum brownei* Juss. (*Blechum blechum* (L.) Millsp., B. & W. 6: 210).

\*CROSSANDRA Salisb.

\**Crossandra infundibuliformis* (L.) Nees. — Seen in gardens, 1972.

DICLIPTERA Juss. (*Diapedium* Konig.).

*Dicliptera assurgens* (L.) Juss. (*Diapedium assurgens* (L.) O. Ktze., B. & W. 6: 215).

\*GRAPTOPHYLLUM Nees

\**Graptophyllum pictum* (L.) Griff. — Seen in gardens, 1972.

JUSTICIA L. (*Stethoma* Raf.).

*Justicia pectoralis* Jacq. (*Stethoma pectoralis* (Jacq.) Raf., B. & W. 6: 218).

\*PSEUDERANTHEMUM Radlk.

\**Pseuderanthemum carruthersii* (Seem.) Guill. — Seen in gardens, 1972.

\*THUNBERGIA Retz.

\**Thunbergia grandiflora* Roxb. — Seen in gardens, 1972.

## RUBIACEAE

HAMELIA Jacq.

*Hamelia patens* Jacq. (*Hamelia erecta* Jacq., B. & W. 6: 233).

HEDYOTIS L. (*Oldenlandia* L.).

*Hedyotis callitrichoides* (Griseb.) Lewis. (*Oldenlandia callitrichoides* Griseb., B. & W. 6: 225). This delicate creeping species still persists in moist crevices in pavement and sidewalks in Christiansted, Fosberg 53932 (US, FA).

*Hedyotis corymbosa* (L.) Lam. (*Oldenlandia corymbosa* L. B. & W. 6: 224).

\*IXORA L.

\**Ixora casei* Hance. — Seen in gardens, 1972.

\**Ixora coccinea* L. — Teague Bay, W.I. Lab., Hayes 136 (FA).

\*PENTAS Benth.

\**Pentas lanceolata* (Forsk.) K. Schum. — Seen in gardens, 1972.

PSYCHOTRIA L.

*Psychotria microdon* (DC.) Urb. (*Psychotria pinularis* Sessé & Moç., B. & W. 6: 245).

*Psychotria pubescens* Sw. — "The Rain Forest" between Est. Prosperity and Est. North Star, Fosberg 54069 (US, FA).

RANDIA L.

*Randia aculeata* L. (*Randia mitis* L., B. & W. 6: 231).

SPERMACOCE L. (*Borreria* Mey.).

*Spermacoce confusa* Rendle (*Spermacoce tenuior* sensu B. & W. 6: 256, non L.).

\**Spermacoce ocymoides* Burm. f. (*Borreria ocimoides* (Burm. f.) DC., B. & W. 6: 255).

*Spermacoce suffrutescens* Jacq. (*Borreria laevis* sensu B. & W. 6: 255, non *Spermacoce laevis* Lam.).

*Spermacoce tenuior* L. (*Spermacoce riparia* C. & S.).

*Spermacoce verticillata* L. (*Borreria verticillata* (L.) Mey., B. & W. 2: 256).

STRUMPFIA Jacq.

*Strumpfia maritima* Jacq. — Setting Point, D'Arcy 4826 (FA).

#### CAMPANULACEAE (Incl. Lobeliaceae)

HIPPOBROMA G. Don (*Isotoma* sensu B. & W.).

*Hippobroma longiflora* (L.) G. Don (*Isotoma longiflora* (L.) Presl, B. & W. 6: 273).

## GOODENIACEAE

## SCAEVOLA L.

- \**Scaevola taccada* (Gaertn.) Roxb. — Many young plants seen in pots in Wells Nursery, Fountain Valley.

## COMPOSITAE

(Incl. Asteraceae, Cichoriaceae, Ambrosiaceae)

BIDENS L. (*Cosmos* Cav.).

- Bidens caudata* (H.B.K.) Sch.-Bip. (*Cosmos caudatus* H.B.K. B. & W. 6: 314).

## CONYZA L.

- Conyza apurensis* H.B.K. (*Leptilon chinensis* (Jacq.) Britt. B. & W. 6: 296).

ECLIPTA L. *Verbesina* sensu B. & W., non L.).

- Eclipta alba* (L.) Hassk. (*Verbesina alba* L., B. & W. 6: 303).

## ELEPHANTOPUS L.

- Elephantopus mollis* H.B.K. (*Elephantopus scaber* sensu Alain, *Rhodora* 67: 354, 1965, non L.).

## \*EMILIA Cass.

- \**Emilia fosbergerii* Nicolson — Mt. Pleasant, Scenic Rd., 500 ft., *Forbes* 48 (FA); between Annaly and Bodkin, 650 ft., *Fosberg* 55326 (US, FA, FO).

EUPATORIUM L. (sensu lato) (*Osmia* Sch.-Bip.; *Hebeclinum* DC.).

- Eupatorium corymbosum* Aubl. (*Osmia corymbosa* (Aubl.) B. & W., B. & W. 6: 288).

- Eupatorium macrophyllum* L. *Hebeclinum macrophyllum* (L.) DC., B. & W. 6: 287).

- Eupatorium odoratum* L. (*Osmia odorata* (L.) Sch.-Bip., B. & W. 6: 287).

- Eupatorium sinuatum* Lam. (*Osmia sinuata* (Lam.) Britt., B. & W. 6: 288).

## \*GYNURA Cass.

\**Gynura aurantiaca* DC. Seen in gardens, 1970.LACTUCA L. (*Brachyramphus* DC.).*Lactuca intybacea* Jacq. (*Brachyramphus intybaceus* (Jacq.) DC., B. & W. 6: 276).\**Lactuca sativa* L. Seen in gardens, 1972.\*LAGASCEA Cav. (*Nocca* Cav.).\**Lagascea mollis* Cav. (*Nocca mollis* (Cav.) Jacq.). Corn Hill, *Fosberg* 54106 (US, FO, FA); East of Alexander Hamilton Airport, *Fosberg* 54120 (US, FA); Teague Bay, West Indies Lab., *Fosberg* 54141 (US, FA, FO).

## PLUCHEA Cass.

*Pluchea carolinensis* (Jacq.) D. Don (*Pluchea odorata* (L.) Cass., B. & W. 6: 298).

## SENECIO L.

\**Senecio confusus* Britt. N. n. w. Cathrine's Rest, *Fosberg* 54119 (US, FA).

## XANTHIUM L.

*Xanthium strumarium* L. (*Xanthium chinense* Mill., B. & W. 6: 278).

## \*YOUNGIA Cass.

\**Youngia japonica* (L.) DC. (*Crepis japonica* L.). Fountain Valley, abundantly naturalized around old nursery, *Fosberg* 54074 (US, FA).

BOTANY DEPARTMENT

U.S. NATIONAL MUSEUM OF NATURAL HISTORY

SMITHSONIAN INSTITUTION

WASHINGTON, D.C. 20560

## STUDIES ON NEW ENGLAND AGARICS, I.

HOWARD E. BIGELOW

In the following contribution, one species in *Collybia*, *C. compressiceps*, and two in *Mycena*, *M. macilenta* and *M. madorophila*, are described as new to science. The proper generic status for *Clitocybe marginata* Peck also has been determined, resulting in the proposal of a new combination, *Callistosporium marginatum*. An interesting and uncommon *Amanita* of hardwoods, *A. spreata* of Peck, is described from Massachusetts specimens.

The colors noted in the descriptions are those of Ridgway (1912).

***Amanita spreata*** (Peck) Saccardo, Syll. Fung. 5: 12. 1887.  
*Fig. 1.*

*Agaricus spretus* Peck, New York State Mus. Rep. 32: 24. 1879.

Pileus 3-11 cm broad, obtuse conic with incurved margin at first, becoming broadly convex and finally plane, margin sometimes elevated in age, striate, slightly umbonate at times in large expanded caps, surface subviscid but soon dry, dull, glabrous and smooth, innately fibrillose in places and  $\pm$  radiate toward margin, dark gray brown to umbrinous young, becoming pale gray brown in age, disc usually remaining dark, extreme margin pallid at times; context thin, soft but brittle, white. Odor none.

Lamellae free or slightly adnexed, close, medium broad (up to 12 mm), tapered at ends, white, edges crenate under a lens.

Stipe 7-17 cm long, apex (4-)10-15 mm thick, equal or tapering upward, base up to 2.5 cm thick, sheathed by distinct volva, curved near base at times, stuffed, pruinose to furfuraceous above annulus, scabrous to innately fibrillose below, white but becoming dingy on bruising.





Fig. 1. *Amanita spreta* (Peck) Saccardo  $\times$  1.